

## ASSIGNMENT 1

Textbook Assignment: "Construction Support," chapter 1, and "Drawings and Specifications," chapter 2.

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| <p>1-1. The ABFC system was developed to provide support facilities to constantly changing tactical and strategic situations.</p> <ol style="list-style-type: none"><li>1. True</li><li>2. False</li></ol>  | <p>1-5. Which of the following ABFC series provides the facility code for an electrical power plant?</p> <ol style="list-style-type: none"><li>1. 200</li><li>2. 700</li><li>3. 800</li><li>4. 900</li></ol>   |
| <p>1-2. Which of the following publications is a detailed, itemized line-item printout of the material in each ABFC?</p> <ol style="list-style-type: none"><li>1. NAVFAC P-405</li><li>2. OPNAV 41P3B</li><li>3. NAVFAC P-437</li><li>4. NAVFAC P-72</li></ol>  | <p>1-6. The Construction Electrician Oriented Assemblies are grouped into which of the following numbered groupings?</p> <ol style="list-style-type: none"><li>1. 10,000 - 19,999</li><li>2. 20,000 - 29,999</li><li>3. 30,000 - 39,999</li><li>4. 40,000 - 49,999</li></ol> |
| <p>1-3. Which of the following publications is the basic document that identifies the structures and supporting utilities of the ABFC system?</p> <ol style="list-style-type: none"><li>1. NAVFAC P-405</li><li>2. OPNAV 41P3B</li><li>3. NAVFAC P-437</li><li>4. NAVFAC P-72</li></ol>                         | <p>1-7. Verification of stock numbers is automatically done when components, facilities, or assemblies are ordered.</p> <ol style="list-style-type: none"><li>1. True</li><li>2. False</li></ol>   |
| <p>1-4. What Facilities Planning Guide gives you planning information, such as crew size, man-hours, land area, and fuel?</p> <ol style="list-style-type: none"><li>1. NAVFAC P-437, Vol. I, part III</li><li>2. NAVFAC P-437, Vol. II</li><li>3. NAVFAC P-72, Vol. II</li><li>4. NAVFAC P-72, Vol. I</li></ol> | <p>1-8. The facility 811 10R of the mobilization component P25 has two fuel tanks for two 200 kW generators.</p> <ol style="list-style-type: none"><li>1. True</li><li>2. False</li></ol>  |
|   | <p>1-9. Which of the following time frames is the duration of the construction standard classified as temporary?</p> <ol style="list-style-type: none"><li>1. less than 6 months</li><li>2. 6 to 60 months</li><li>3. 61 to 65 months</li><li>4. 66 to 70 months</li></ol>   |

1-10. Days of construction duration are based on job requirements, optimum construction crew size, and full-material availability.

1. True
2. False

1-11. An assembly designated code "N" is suitable for which of the following temperate zones?

1. North
2. Tropical
3. South
4. Arctic

1-12. Which of the following facility recoverability codes indicate a total recoverability?

1. A
2. B
3. C
4. D

1-13. Trench-excavated materials must NOT be stored closer than which of the following minimum distances from the excavated trench edge?

1. 10 feet
2. 2 feet
3. 6 feet
4. 4 feet

1-14. When exiting or entering an excavated trench 4 feet or deeper, which of the following methods should be used?

1. Ladder
2. Stairway
3. Hoist
4. All of the above

1-15. Trenches of soft material must be shored if the depth exceeds what minimum depth?

1. 8 feet
2. 6 feet
3. 5 feet
4. 4 feet

1-16. Which of the following features should you be concerned with when determining the angle of slope or the material required for safe trench shoring?

1. Physical condition of the crew
2. Depth or cut of the trench
3. Anticipated changes in material from exposure to air, sun, and water
4. Both 2 and 3 above

1-17. The project package is the collection of all information required to plan, schedule, monitor, and execute the project.

1. True
2. False

1-18. Which of the following elements is the most critical part of the project package?

1. Field change documentation
2. Project history package
3. Project planning package
4. Inspection reports and material availability supply documentation

1-19. After the regiment divides the project into master activities and assigns the project to the battalion, the battalion breaks down the project into construction activities.

1. True
2. False

1-20. Network analysis is used for which of the following purposes?

1. As a management tool
2. As a method of planning
3. As a method of controlling a project
4. All of the above

1-21. As a management tool of network analysis, what advantage is there in seeing the interdependencies between events and the overall project?

1. Time restraints are easily adjustable to permit changes in the plan
2. Prevents unrealistic or superficial planning
3. Both 1 and 2 above
4. Enables the crew to complete the project on schedule

1-22. The identification of which of the following events is useful if the project completion date has to be advanced?

1. Critical path
2. Manpower scheduling
3. Material scheduling
4. Equipment scheduling

1-23. Which of the following disadvantages is common in network analysis of large projects?

1. Requirement for a computer
2. Chance for error is high when manually attempting to calculate events
3. Needs to be revised daily
4. Difficult to follow project progress on a day-to-day basis

1-24. Who is responsible for project planning?

1. Project crew leader
2. Project crew
3. Planning and estimating department
4. Project manager

1-25. Timekeeping and labor reporting are only important to NCF units.

1. True
2. False

1-26. Labor accounting records are mandatory for man-hours spent on various project functions.

1. True
2. False

1-27. The accountability for labor expended includes work performed by which of the following personnel?

1. Military
2. Civilian
3. Both 1 and 2 above

1-28. Quality control serves which of the following purposes?

1. Prevents discrepancies
2. Ensures the quality of workmanship
3. Ensures material meets specification requirements
4. All of the above

1-29. Who has responsibility for the quality of the construction project?

1. Crew leader only
2. The chain of command only
3. Crew leader and the chain of command
4. Project supervisor

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|--|
| A. Personnel awareness<br>B. Construction methods<br>C. Quality control measures<br>D. Work evaluation<br>E. Training and equipment requirements |
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Figure 1A

IN ANSWERING QUESTIONS 1-30 THROUGH 1-34, REFER TO FIGURE 1A, AND SELECT THE STEP THAT IS DESCRIBED IN THE QUESTION.

1-30. In what quality control development step would you address special requirements, such as training, hazardous material, or personnel safety protection?

1. A
2. B
3. C
4. D

1-31. In what quality control development step would you address concerns about project impact on equipment, tools, materials, labor, training, and safety requirements?

1. A
2. B
3. D
4. E

1-32. In what quality control development step would you address specialized training and special qualifications?

1. A
2. B
3. C
4. E

1-33. In what quality control development step would you brief all crew members about critical measurements and inspection items?

1. A
2. B
3. C
4. D

1-34. In what quality control development step would you judge that the work is being performed according to specifications?

1. B
2. C
3. D
4. E

1-35. Who has the final approving authority for NCF project field changes?

1. Quality control department
2. Quality control chief
3. Quality control officer
4. Resident officer in charge of construction

1-36. Tight work schedules and adverse working conditions are acceptable reasons for relaxation of safety standards.

1. True
2. False

1-37. Project concepts are normally developed by which of the following activity/activities?

1. NAVFACENGCOM
2. Local activities
3. Engineering Field Divisions
4. COMSECOND/COMTHIRD NCB

1-38. For which of the following reasons is/are supporting documentation for a construction project forwarded to NAVFACENGCOM?

1. Requirement validation
2. Technical adequacy of the design
3. Reasonable cost estimate
4. All of the above

1-39. Project activity quantities provide the basis for preparing which of the following estimates?

1. Material
2. Equipment
3. Manpower
4. All of the above

1-40. Which of the following information is NOT provided on a project bill of material statement?

1. Project stock numbers
2. Material quantities and line items
3. Identification of the location of where the material will be used
4. Description, vendor's name, and cost

1-41. Which of the following items contains a precise statement of quantities of material, equipment, and manpower required to construct a given project?

1. Activity estimate
2. Bill of material
3. Detailed estimate
4. Master activity

1-42. The specifications are arranged in the sequence in which the project will progress.

1. True
2. False

1-43. Construction drawings are the main basis for defining the required activities, measuring the quantities of material, and making accurate estimates.

1. True
2. False

1-44. Building projects are broadly divided into how many major phases?

1. One
2. Two
3. Three
4. Four

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- A. Working
- B. Shop
- C. Presentation
- D. Preliminary
- E. As built

Figure 1B

IN ANSWERING QUESTIONS 1-45 THROUGH 1-49, REFER TO FIGURE 1B, AND SELECT THE DRAWING THAT IS DESCRIBED IN THE QUESTION.

1-45. What drawing is prepared during the design phase?

- 1. A
- 2. B
- 3. C
- 4. D

1-46. What drawing shows the proposed building or facility in an attractive setting?

- 1. A
- 2. B
- 3. C
- 4. E

1-47. What drawing is developed after approval has been given for construction?

- 1. A
- 2. B
- 3. C
- 4. D

1-48. What drawing is supplied by manufacturers to show fabrication of building parts?

- 1. A
- 2. B
- 3. D
- 4. E

1-49. What drawing provides marked prints that indicate any construction deviations?

- 1. A
- 2. B
- 3. D
- 4. E

1-50. The drawing index is commonly divided into how many categories?

- 1. 10
- 2. 8
- 3. 6
- 4. 4

|                |                   |
|----------------|-------------------|
| A. Border      | G. Extension      |
| B. Main object | H. Symbol section |
| C. Trim        | I. Center         |
| D. Dimension   | J. Section        |
| E. Broken      | K. Invisible      |
| F. Equipment   |                   |

Figure 1C

IN ANSWERING QUESTIONS 1-51 THROUGH 1-61, REFER TO FIGURE 1 C, AND SELECT THE TYPE OF LINE DESCRIBED BY THE QUESTION.

1-51. What construction drawing line is a light, continuous line along which the tracing is trimmed to square the sheet?

- 1. A
- 2. B
- 3. C
- 4. D

1-52. What construction drawing line is a heavy, continuous line that outlines the drawing?

- 1. A
- 2. B
- 3. C
- 4. D

1-53. What construction drawing line outlines the main wall lines on plans and sections?

1. A
2. B
3. C
4. D

1-54. What construction drawing line is drawn between extension lines with an arrowhead on each end?

1. A
2. B
3. C
4. D

1-55. What construction drawing line extends out from the edge or the point at which the dimension is to be determined?

1. E
2. F
3. G
4. H

1-56. What construction drawing line is a light, continuous, unbroken line used to show the location of transformers, panels, etc.?

1. E
2. F
3. G
4. H

1-57. What construction drawing line is used to shade surfaces shown on a drawing and by these means indicate the material used?

1. E
2. F
3. G
4. H

1-58. What construction drawing line is used in detailed drawings where only a section of the object is to be shown?

1. E
2. G
3. H
4. J

1-59. What construction drawing line is used to indicate an edge(s) that is/are hidden under some other part of the structure?

1. E
2. I
3. J
4. K

1-60. What construction drawing line is made up of alternating long and short dashes and is used to indicate the middle of an object?

1. E
2. I
3. J
4. K

1-61. What construction drawing line has arrowheads at each end that point in the direction in which the section is to be taken?

1. E
2. I
3. J
4. K

1-62. Where on a drawing would you find the meaning of any nonstandard symbol(s)?

1. Title block
2. Legend
3. Notes
4. Bill of material

1-63. Which of the following drawing scales is most commonly used to draw floor plans and elevations of construction projects?

1. 1 inch = 1 foot
2. 1/2 inch = 1 foot
3. 1/4 inch = 1 foot
4. 1/8 inch = 1 foot